

536, 927

Rec PCT/PTO 31 MAY 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number
WO 2004/050913 A1(51) International Patent Classification?:
A61K 31/00, A61P 25/28

C12Q 1/68,

(74) Agent: WAKERLEY, Helen, Rachael; Reddie & Grose,
16 Theobalds Road, London WC1X 8PL (GB).(21) International Application Number:
PCT/GB2003/005131(22) International Filing Date:
26 November 2003 (26.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0228079.0 2 December 2002 (02.12.2002) GB(71) Applicant (for all designated States except US): LAX-
DALE LIMITED [GB/GB]; Kings Park House, Laurelhill
Business Park, Polmaise Road, Stirling FK7 8JQ (GB).

(71) Applicant and

(72) Inventor (for US only): HORROBIN, David, Frederick
[GB/GB]; Laxdale Limited, Kings Park House, Laurelhill
Business Park, Polmaise Road, Stirling FK7 9JQ (GB).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: TREATMENT OF HUNTINGTON'S DISEASE WITH EPA

(57) Abstract: Analysis of the huntington gene provides a method for identifying patients likely to respond to treatment of Hunt-
ington's disease with eicosapentaenoic acid, EPA.

WO 2004/050913 A1

INTERNATIONAL SEARCH REPORT

Internat. Application No
PCT/GB 03/05131

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68 A61K31/00 A61P25/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/077361 A1 (VADDADI KRISHNA S ET AL) 20 June 2002 (2002-06-20) column 8, paragraph 3 -column 9, paragraph 2	1-5
A	US 6 384 077 B1 (VADDADI KRISHNA S ET AL) 7 May 2002 (2002-05-07) column 2, line 34 column 14, paragraph 3 -column 16, paragraph 2	1-5
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

4 March 2004

Date of mailing of the international search report

12/03/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Osborne, H

INTERNATIONAL SEARCH REPORT

Internat

Application No

PCT/GB 03/05131

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BECHER M W ET AL: "INTRANUCLEAR NEURONAL INCLUSIONS IN HUNTINGTON DISEASE AND DENTATORUBRAL AND PALLIDOLUYSIAN ATROPHY: CORRELATION BETWEEN THE DENSITY OF INCLUSIONS AND IT15 CAG TRIPLET REPEAT LENGTH" NEUROBIOLOGY OF DISEASE, BLACKWELL SCIENTIFIC PUBLICATIONS, OXFORD, GB, vol. 4, no. 6, April 1998 (1998-04), pages 387-397, XP000997534 ISSN: 0969-9961 page 392, paragraph 2 -page 395 ----	1-6
Y	WO 99 15639 A (ROULEAU GUY A ;UNIV MCGILL (CA); JOOBER RIDHA (CA); BENKELFAT CHAW) 1 April 1999 (1999-04-01) page 1-7; claims 5,10 ----	1-6
A	WO 01 24781 A (DENOVAN WRIGHT EILEEN M ;NOVANEURON INC (CA); ROBERTSON HAROLD A) 12 April 2001 (2001-04-12) ----	
A	NANCE M A: "CLINICAL ASPECTS OF CAG REPEAT DISEASES" BRAIN PATHOLOGY, ZUERICH, CH, vol. 7, no. 3, July 1997 (1997-07), pages 881-900, XP000998301 ISSN: 1015-6305 the whole document ----	1-6
A	EP 0 614 977 A (GEN HOSPITAL CORP) 14 September 1994 (1994-09-14) claim 13 -----	1-6

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/05131

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 3-5 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/GB 03/05131

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002077361 A1	20-06-2002	US 2002183389 A1	05-12-2002
		US 2002193439 A1	19-12-2002
		AU 3065700 A	18-08-2000
		BR 0007743 A	27-11-2001
		CA 2360776 A1	03-08-2000
		CN 1338929 T	06-03-2002
		CZ 20012695 A3	13-02-2002
		EE 200100387 A	17-02-2003
		EP 1148873 A2	31-10-2001
		WO 0044361 A2	03-08-2000
		HR 20010558 A1	31-08-2002
		HU 0105215 A2	29-05-2002
		JP 2002535355 T	22-10-2002
		NO 20013546 A	25-09-2001
		NZ 513172 A	31-10-2003
		SK 10392001 A3	05-02-2002
		TR 200102170 T2	21-12-2001
		US 6384077 B1	07-05-2002
		ZA 200106105 A	03-03-2003
US 6384077 B1	07-05-2002	AU 3065700 A	18-08-2000
		BR 0007743 A	27-11-2001
		CA 2360776 A1	03-08-2000
		CN 1338929 T	06-03-2002
		CZ 20012695 A3	13-02-2002
		EE 200100387 A	17-02-2003
		EP 1148873 A2	31-10-2001
		WO 0044361 A2	03-08-2000
		HR 20010558 A1	31-08-2002
		HU 0105215 A2	29-05-2002
		JP 2002535355 T	22-10-2002
		NO 20013546 A	25-09-2001
		NZ 513172 A	31-10-2003
		SK 10392001 A3	05-02-2002
		TR 200102170 T2	21-12-2001
		US 2002077361 A1	20-06-2002
		US 2002183389 A1	05-12-2002
		US 2002193439 A1	19-12-2002
		ZA 200106105 A	03-03-2003
WO 9915639 A	01-04-1999	CA 2216057 A1	19-03-1999
		AU 757556 B2	27-02-2003
		AU 9149598 A	12-04-1999
		BR 9812254 A	09-07-2002
		CA 2303106 A1	01-04-1999
		WO 9915639 A1	01-04-1999
		EP 1015574 A1	05-07-2000
		JP 2001517432 T	09-10-2001
WO 0124781 A	12-04-2001	CA 2285690 A1	07-04-2001
		AU 7766300 A	10-05-2001
		WO 0124781 A2	12-04-2001
		CA 2320400 A1	07-04-2001
		EP 1223937 A2	24-07-2002
		JP 2003510349 T	18-03-2003
EP 0614977 A	14-09-1994	AT 231551 T	15-02-2003
		AU 676001 B2	27-02-1997

INTERNATIONAL SEARCH REPORT

Information on patent family members

International

Application No

PCT/GB 03/05131

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0614977	A	AU 5642994 A	08-09-1994
		CA 2116280 A1	06-09-1994
		DE 69432031 D1	27-02-2003
		EP 0614977 A2	14-09-1994
		JP 7067661 A	14-03-1995
		US 5686288 A	11-11-1997
		US 5693757 A	02-12-1997